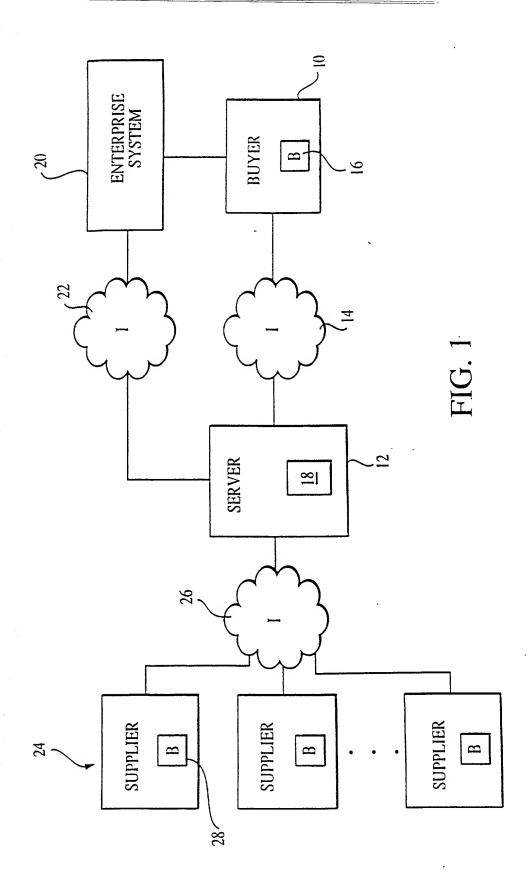


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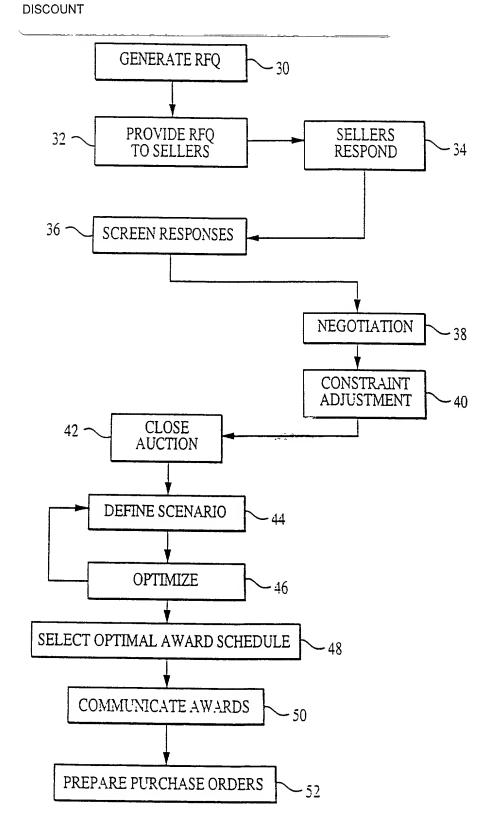
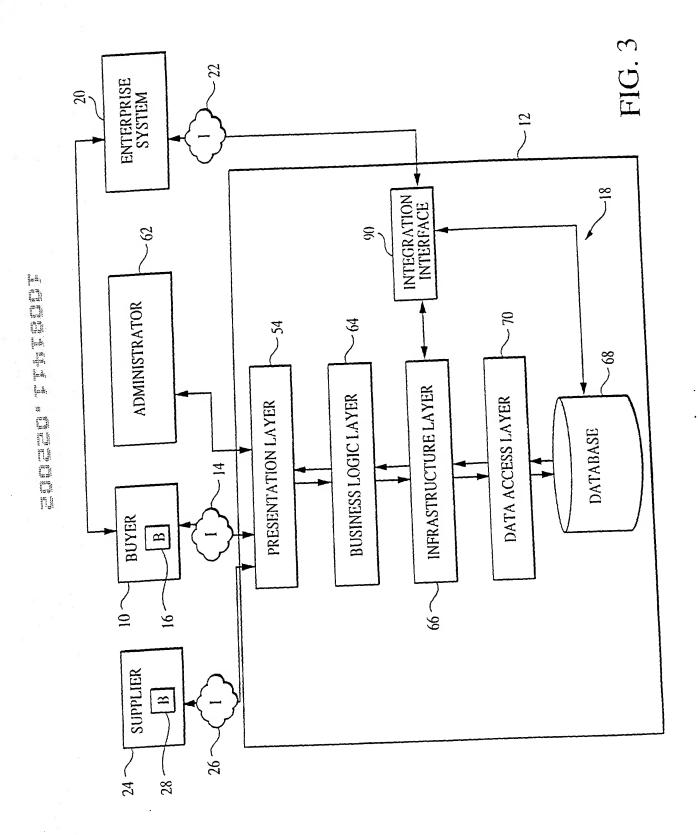


FIG. 2

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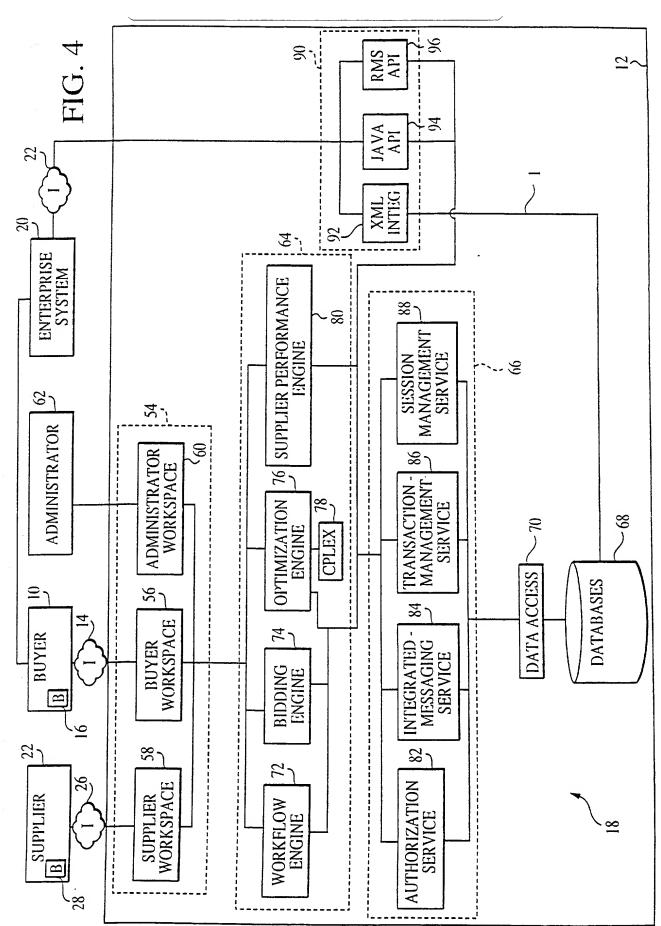
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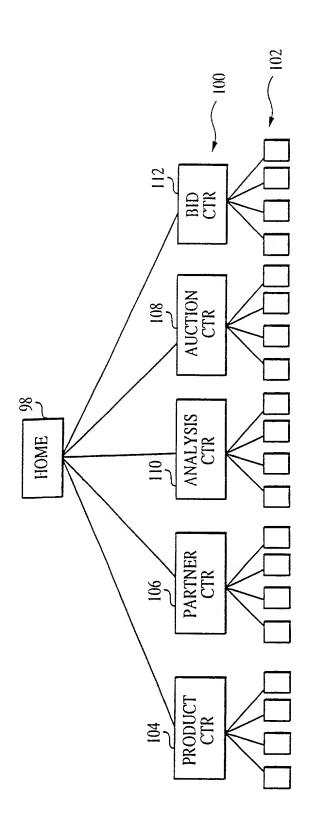


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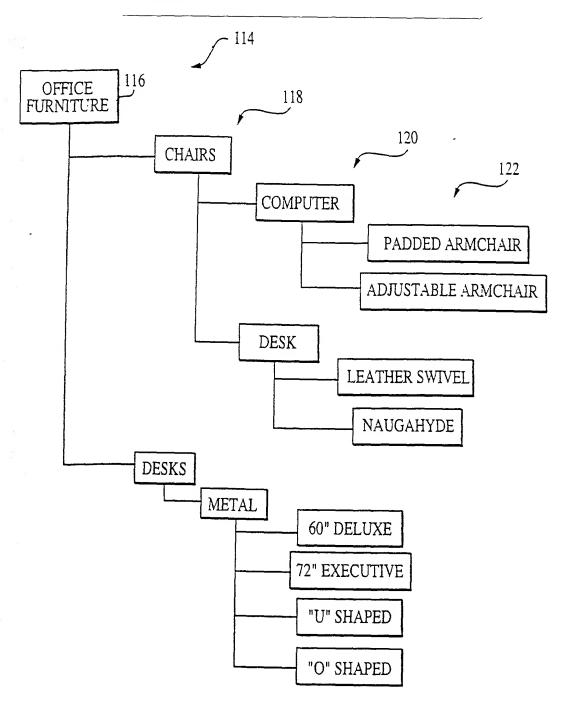


FIG. 7

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AUCTION MANAGEMENT WITH BUSINESS VOLUME
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AUCTION MANAGEMENT WITH BUSINESS VOLUME
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DISCOUNT

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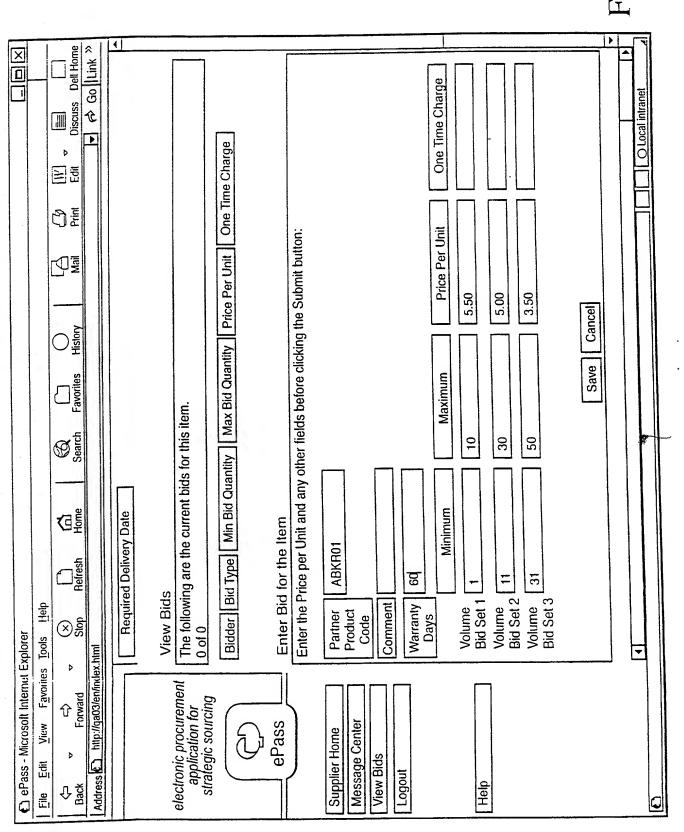
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FIG. 17



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FIG. 18

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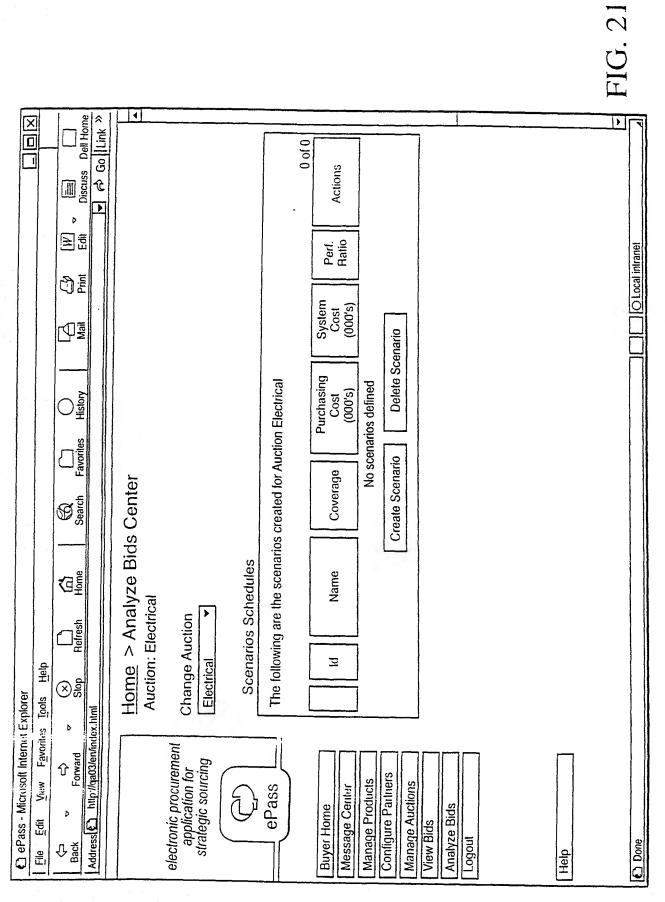
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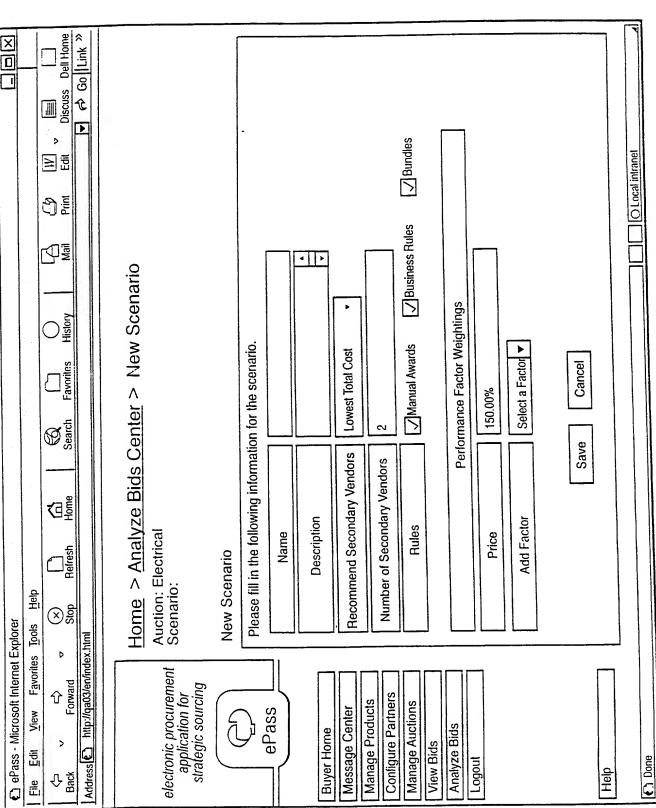


FIG. 22

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FIG. 26

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DISCOUNT

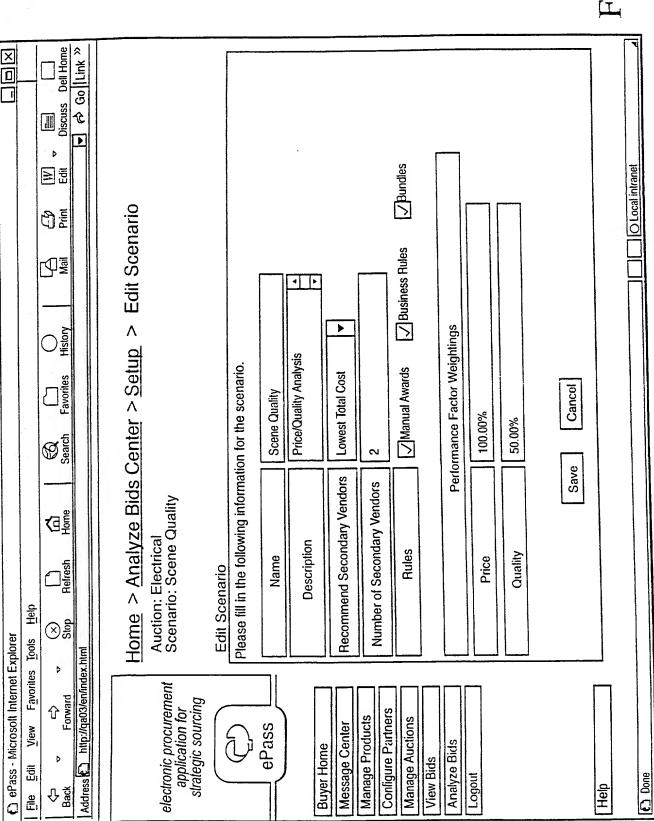
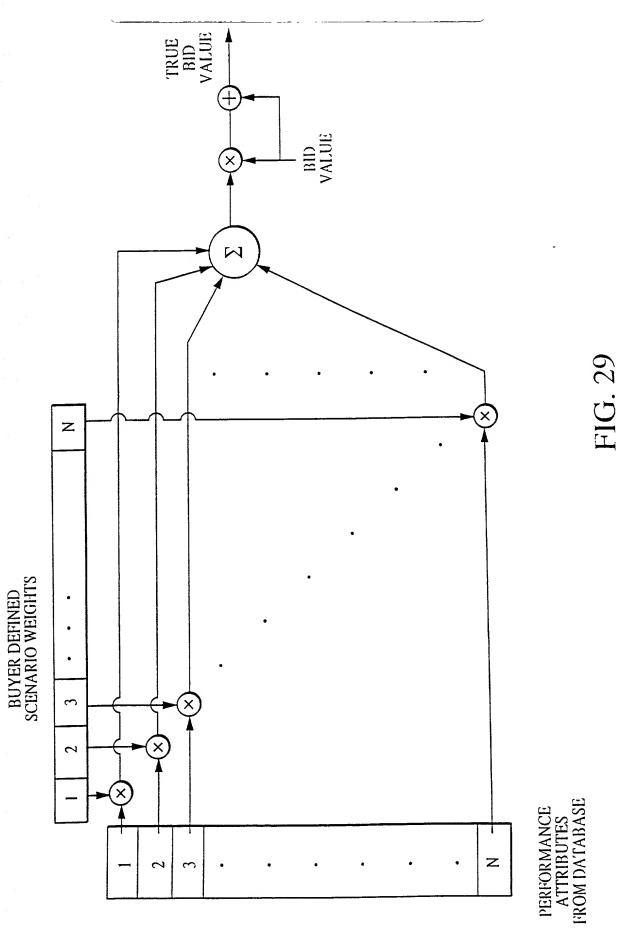


FIG. 28

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 $\sum_{b(s)\in B(s)} C_t^{b(s)} x_i^{b(s)} + \sum_{d(s)\in D(s)} C_i^{d(s)} Z_i^{d(s)}$ $\int_{1}^{1} f^{d(s)} \sum_{i \in d(s)} Z^{d(s)} + C_{i}^{d(s)} Z_{i}^{d(s)}$

BVD TERM

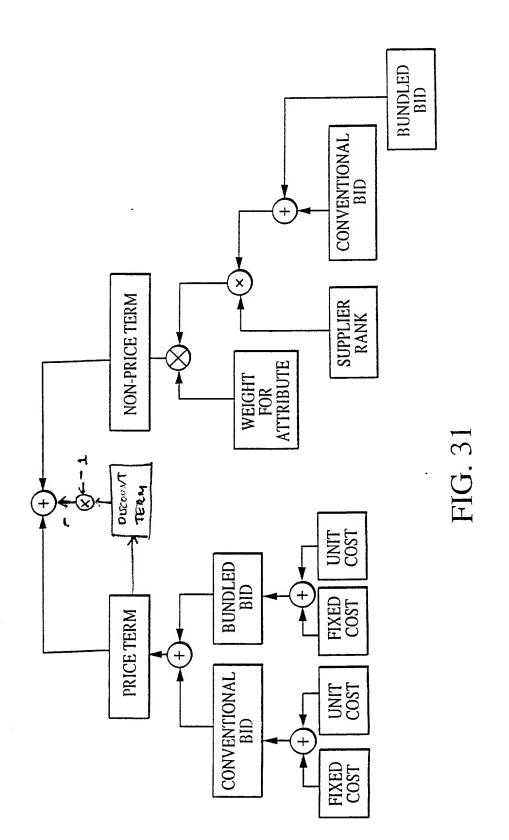
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 $f_i^b(s) X^b(s) + C_i^b(s) X_i^b(s)$

H

PRICE TERM

BUD TERM =



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$$\sum_{s \in S} \left(\sum_{b(s) \in B(s)} x_i^{b(s)} + \sum_{d(s) \in D(s)} z_i^{d(s)} \right) \le Q_i^u \qquad \forall i \in I$$
 (1)

$$\sum_{s \in S} \left(\sum_{b(s) \in B(s)} x_i^{b(s)} + \sum_{d(s) \in D(s)} z_i^{d(s)} \right) \ge Q_i^l \qquad \forall i \in I$$
 (2)

$$\sum_{i \in g} \left(\sum_{b(s) \in B(s)} x_i^{b(s)} + \sum_{d(s) \in D(s)} z_i^{d(s)} \right) - Y_g^s M_g \le 0 \qquad \forall s \in S \\ \forall g \in G$$
 (3)

$$\sum_{i \in g} \left(\sum_{b(s) \in B(s)} x_i^{b(s)} + \sum_{d(s) \in D(s)} z_i^{d(s)} \right) - Y_g^s \ge 0 \qquad \forall s \in S \qquad (4)$$

$$\sum_{s \in T} Y g^s \le \text{Max N} g^t \qquad \forall g \in G, \quad \forall t \in T$$
 (5)

$$\sum_{s \in T} Y_g^s \ge \min_{s \in T} N_g^t \qquad \forall g \in G. \quad \forall r \in T$$
 (6)

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< Max Qg' VgeG, VIET

 $\sum_{i} x_i^b(s) + \sum_{i} z_i^d(s)$ $b(s) \in B(s) \qquad d(s) \in D(s)$

 \mathbb{Z}^{0}

 $\mathbb{Z}_{\mathbb{R}}$

 $Min Q_g^I \quad V_R \in G, V_I \in T$

ΛΙ

Max $V_g^{\ \prime}$ VgeG, VieT

VI

 $\sum_{c_i^b(s)} c_i^b(s) x_i^b(s) + \sum_{c_i^d(s)} c_i^d(s)$ $b(s) \in B(s) \qquad d(s) \in D(s)$

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≥ Min Vgt VgeG, VreT

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(11)

$$Z_i^{d(s)} - u_i^{d(s)} \, Z^{d(s)} \leq 0$$

 $\forall i \in I, \forall s \in S. \forall b(s) \in B(s)$

(12)

$$Z_i^{d(s)} - l_i^{d(s)} Z^{d(s)} \ge 0$$

 $\forall i {\in} \mathsf{I}, \forall s {\in} \mathsf{S}. \forall b(s) {\in} \mathsf{B}(s)$

(13)

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And the first trees to the first that the first tha

$$X_i^{b(s)}-X^{b(s)}\cup_l^{b(s)}\leq 0$$

 $\forall s \in S. \forall b(s) \in B(s)$

(14)

$$\mathsf{X}_i{}^{b(s)} - \mathsf{X}^{b(s)} \, \mathsf{L}_i{}^{b(s)} \! \geq 0$$

 $\forall s \in S, \forall b(s) \in B(s)$

 $(15)^{\cdot}$

$$0 \leq X_i^{b(s)} \leq \bigcup_i b(s)$$

 $\forall s \in S, \forall b(s) \in B(s)$

(16)

$$0 \leq Z_i^{d(s)}$$

 $\forall d(s) \in D(s)$

(17)

$$\chi^{b(s)} = \begin{cases} 0 \\ 1 \end{cases}$$

 $\forall b(s) \in B(s)$

(18)

$$Y_g^s = \begin{cases} 0 \\ 1 \end{cases}$$

 $\forall g \in G. \ \forall s \in S$

(19)

$$Z_g^s = \begin{cases} 0 \\ 1 \end{cases}$$

 $\forall g \in G, \forall s \in S$

FIG. 34

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 $\sum_{h \in segments(bvd)} I^h_{s,bvd} = 1 \quad \forall s \in \mathcal{S} \quad \text{and} \quad bvd \in BVD(s)$

and $b(s) \in B(s)$ $\forall s \in S$ ---(22)

 $d(s) \in D(s)$ and $i \in d(s)$ $J_{i,bvd}^{d(s)} = 1 \quad \forall s \in S,$ (23)

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(24)
$$-M \cdot J_{bvd}^{b(s)} \le X_{bvd}^{b(s)} \le J_{bvd}^{b(s)} \cdot M$$

$$X^{b(s)} - M \cdot (1 - J_{bvd}^{b(s)}) \le X_{bvd}^{b(s)} \le (1 - J_{bvd}^{b(s)}) \cdot M + X^{b(s)}$$

(25)
$$-M \cdot J_{bvd}^{b(s)} \le x_{i,bvd}^{b(s)} \le J_{bvd}^{b(s)} \cdot M$$
$$x_{i}^{b(s)} - M \cdot (1 - J_{bvd}^{b(s)}) \le x_{i,bvd}^{b(s)} \le (1 - J_{bvd}^{b(s)}) \cdot M + x_{i}^{b(s)}$$

(26)
$$-M \cdot J_{i,bvd}^{d(s)} \le Z_{i,bvd}^{d(s)} \le J_{i,bvd}^{d(s)} \cdot M$$
$$Z_{d(s)}^{d(s)} - M \cdot (1 - J_{i,bvd}^{d(s)}) \le Z_{i,bvd}^{d(s)} \le (1 - J_{i,bvd}^{d(s)}) \cdot M + Z$$

$$Z_{i}^{d(s)} - M \cdot (1 - J_{i,bvd}^{d(s)}) \le Z_{i,bvd}^{d(s)} \le (1 - J_{i,bvd}^{d(s)}) \cdot M + Z_{i}^{d(s)}$$

(27)
$$-M \cdot J_{i,bvd}^{d(s)} \le Z_{i,bvd}^{d(s)} \le J_{i,bvd}^{d(s)} \cdot M$$
$$Z_{i}^{d(s)} - M \cdot (1 - J_{i,bvd}^{d(s)}) \le Z_{i,bvd}^{d(s)} \le (1 - J_{i,bvd}^{d(s)}) \cdot M + Z_{i}^{d(s)}$$

(28)
$$I_{s,bvd}^{h} \in \{0,1\} \quad \forall s \in S, \quad bvd \in BVD(s), \quad h \in segments(bvd)$$

(29)
$$J_{bvd}^{b(s)} \in \{0,1\}$$
 $\forall s \in S$, $b(s) \in B(s)$, $bvd \in coveredbids(b(s))$
(30) $J_{bvd}^{d(s)} \in \{0,1\}$ $\forall s \in S$, $d(s) \in D(s)$, $bvd \in coveredbids(d(s),i)$

FIG. 36